

Claims

1. A method of controlling a communication control entity (121, 122, 123) in a communication control part (1) of a mobile communication network that comprises said communication control part (1) and an access part (2), said communication control entity (121, 122, 123) acting as a primary communication entity (121) for a call communication and belonging to a pool (12) of communication control entities among which no handover procedure is conducted as long as a mobile communication device (3) moves among service realms (101, 102, 103, 104, 105) associated with a predetermined number (11) of access control entities (111, 112, 113, 114, 115) that are connected to said pool (12), said method comprising the steps:

receiving (S31) a handover request for removing a first secondary communication control entity (124) from a control process for controlling said call communication and adding a second secondary communication control entity (123, 125),

determining (S32) whether said second secondary communication control entity (123, 125) belongs to said pool (12), and if said second secondary communication control entity (123) belongs to said pool (12), rejecting to add said second secondary communication control entity (123) to said control procedure and instead communicating (S34) with the mobile communication device (3) of which said given call communication is being controlled via an access control entity (111) connected to said primary communication control entity (121).

2. The method of claim 1, wherein said primary communication control entity (121) determines whether said second secondary communication control entity (123,

125) belongs to said pool (12) by determining an identifier of said second secondary communication control entity (123, 125) from said handover request and comparing said identifier with a list of identifiers of communication control entities belonging to said pool (12).

5 3. The method of claim 1, wherein said primary communication control entity (121) determines whether 10 said second secondary communication control entity (123, 125) belongs to said pool (12) by determining an identifier of an access control entity (104, 105, 107, 108) connected to said second secondary communication control entity (123, 125) from said handover request and comparing said identifier with a list of identifiers of 15 access control entities belonging to said predetermined number (11) of access control entities (111, 112, 113, 114, 115).

20 4. A computer program product for performing the method of one of claims 1 to 3 when executed on a communication control entity (121, 122, 123, 124, 125) of said mobile communication network.

25 5. A communication control entity (121) for a communication control part (1) of a mobile communication network that comprises said communication control part (1) and an access part (2), said communication control entity (121) belonging to a pool (12) of communication control 30 entities among which no handover procedure is conducted as long as a mobile communication device (3) moves among service realms (101, 102, 103, 104, 105) associated with a predetermined number (11) of access control entities (111, 112, 113, 114, 115) that are connected to said 35 pool (12), and being arranged to act as a primary communication entity (121) for a given call communication, wherein said communication control entity (121) comprises a processor, which, when said

communication control entity (121) is acting as a primary communication control entity (121) and when a handover request for removing a first secondary communication control entity (124) from the control process and adding a second secondary communication control entity (123, 125) is received, is arranged to determine whether said second secondary communication control entity (123, 125) belongs to said pool (12), and if said second secondary communication control entity (123) belongs to said pool (12), controlling said communication control entity (121) to directly communicate with the mobile communication device (3) of which said given call communication is being controlled via an access control entity (111) connected to said communication control entity (121).

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